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DATASHEET

UNC 0646

Product overview

Name	UNC 0646
Cat No	HB1423
Alternative names	Compound 6
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective G9a / GLP HMTase inhibitor

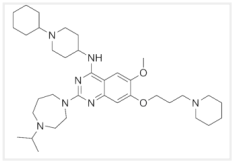
Biological Data

Biological description	Potent and selective G9a and G9a-like protein (GLP) histone lysine methyltransferase (HMTase) inhibitor (IC_{50} values are 6 and < 15 nM respectively). Selective for G9a and GLP over other methyltransferases.

Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	*N*-(1-Cyclohexyl-4-piperidinyl)-2-[hexahydro-4-(1-methylethyl)-1*H*-1,4-diazepin-1-yl]-6-methoxy-7-[3-(1-piperidinyl)propoxy]-4-quinazolin amine
Molecular Weight	621.9
Chemical structure	
Molecular Formula	$C_{36}H_{59}N_7O_2$
CAS Number	1320288-17-2
PubChem identifier	53315882
SMILES	CC(C)N(CC6)CCCN6C1=NC(NC3CCN(C5CCCCC5)CC3)=C2C(C=C(OCCCN4CCCCC4)C(OC)=C2)=N1
InChiKey	OUKWLRHRXOPODD-UHFFFAOYSA-N

References

Optimization of cellular activity of G9a inhibitors 7-aminoalkoxy-quinazolines.

Liu F *et al* (2011) J Med Chem 54(17)
PubMedID 21780790

G9a functions as a molecular scaffold for assembly of transcriptional coactivators on a subset of glucocorticoid receptor target genes.

Bittencourt D *et al* (2012) Proc Natl Acad Sci U S A 109(48)
PubMedID 23151507